

Complete Listing of Claims

This listing of claims will replace all prior versions and listings of claims in the application.

1. (Cancelled)
2. (Previously presented) The method of Claim 21, wherein the secondary processor comprises a graphics processor.
3. (Previously presented) The method of Claim 21, wherein one of the following conditions exists:
 - (a) the first predefined order comprises a little endian order, and the second predefined order comprises a big endian order;
 - (b) the first predefined order comprises a big endian order and the second predefined order comprises a little endian order;
 - (c) the first predefined order comprises a pixilated little endian order, and the second predefined order comprises a big endian order; and
 - (d) the first predefined order comprises a pixilated big endian order, and the second predefined order comprises a little endian order.
4. (Previously presented) The method of Claim 21, wherein the data comprise image data.
5. (Previously presented) The method of Claim 21, wherein the operation comprises one of a draw operation and a multi-textured draw operation.
6. (Previously presented) The method of Claim 21, wherein the creating and storing step comprises the steps of:
 - (a) defining a secondary storage space that is accessible to the secondary processor;
 - (b) the primary processor storing the data in the first predefined order in a primary storage space that is accessible to both the primary processor and the secondary processor; and

(c) the secondary processor copying the data in the first predefined order from the primary storage space to the secondary storage space.

7. (Cancelled)

8. (Previously presented) The method of Claim 21, wherein the step of determining original coordinates of each subdivision comprises the step of determining vertices of each subdivision relative to an origin of the data.

9. (Previously presented) The method of Claim 21, wherein the step of transforming the original coordinates comprises the step of instructing the secondary processor to transpose the coordinates of each subdivision so as to mirror the data of each subdivision about a center position.

10. (Previously presented) The method of Claim 21, further comprising the steps of:

- (a) predefining a mask for selectively retaining a subset of the data; and
- (b) applying the mask to the subdivisions to further subdivide the data into a plurality of subsets of data that are iteratively repositioned to new locations relative to the new coordinates, the new locations corresponding to original locations relative to the original coordinates.

11. (Previously presented) The method of Claim 21, further comprising the step of determining a portion of data that changed since a previous execution cycle so that only the portion of data that changed since the previous execution cycle is reordered between the first predefined order and the second predefined order.

12. (Canceled).

13. (Previously presented) A memory medium on which are stored machine instructions for carrying out the steps of Claim 21.

14. (Currently amended) A system for reordering data between a first predefined order and a second predefined order [~~using an operation not provided to the system for that purpose~~], comprising:

(a) a primary processor;
(b) a secondary processor in communication with the primary processor; and
(c) a memory in communication with the primary processor and the secondary processor, the memory storing the data in the first predefined order and storing machine instructions that cause the primary processor and the secondary processor to carry out a plurality of functions, including:

(i) creating and storing data that are arranged in the first predefined order;
(ii) using the primary processor, determining subdivisions of the data that are arranged in the first predefined order, wherein each subdivision is based on a predefined size of each datum of the data;
(iii) using the primary processor, determining original coordinates defining each subdivision within the data that are arranged in the first predefined order; and
(iv) using an operation of the secondary processor provided for a different purpose, [for performing the operation, thereby] transforming the original coordinates of each subdivision to new coordinates and repositioning the data of each subdivision to have the same locations relative to the new coordinates as the data had relative to the original coordinates, thereby reordering the data from the first predefined order to the second predefined order.

15. (Original) The system of Claim 14, wherein one of the following conditions exists:

(a) the first predefined order comprises a little endian order and the second predefined order comprises a big endian order;
(b) the first predefined order comprises a big endian order and the second predefined order comprises a little endian order;
(c) the first predefined order comprises a pixilated little endian order and the second predefined order comprises a big endian order; and
(d) the first predefined order comprises a pixilated big endian order and the second predefined order comprises a little endian order.

16. (Original) The system of Claim 14, wherein the machine instructions further cause the primary processor to perform the functions of:

(a) determining a size of each subdivision as a function of the predefined size of each datum of the data; and

(b) determining a number of subdivisions within the data.

17. (Original) The system of Claim 14, wherein the machine instructions further cause the primary processor to perform the function of determining vertices of each subdivision relative to an origin of the data.

18. (Original) The system of Claim 14, wherein the machine instructions further cause the secondary processor to perform the function of transposing the coordinates of each subdivision so as to mirror the data of each subdivision about a center position.

19. (Original) The system of Claim 14, wherein the machine instructions further cause the primary processor to perform the function of predefining a mask for selectively retaining a subset of the data and cause the secondary processor to perform the function of applying the mask to the subdivisions to further subdivide the data into a plurality of subsets of data that are iteratively repositioned to new locations relative to the new positions, the new locations corresponding to original locations relative to the original positions.

20. (Original) The system of Claim 14, further comprising a display in communication with the secondary processor, wherein the machine instructions further cause the secondary processor to perform the function of displaying the data arranged in the second predefined order on the display.

21. (Previously presented) A method for reordering data from a first predefined order to a second predefined order in a system having a primary processor and a secondary processor, comprising:

- a. creating and storing data that are arranged in a first predefined order;
- b. determining subdivisions of the data based on a predefined size of each datum of the data;
- c. determining original coordinates for each subdivision of the data;

d. transforming the original coordinates of each subdivision to new coordinates using an operation of the secondary processor intended for another function thereby obtaining reordered data that are arranged in a second predefined order; and

e. displaying the reordered data.

22. (Previously presented) A method for reordering data from a first predefined order to a second predefined order in a system having a primary processor and a secondary processor, comprising:

a. creating and storing data that are arranged in a first predefined order;

b. determining subdivisions of the data based on a predefined size of each datum of the data;

c. determining original coordinates for each subdivision of the data;

d. transforming the original coordinates of each subdivision to new coordinates using a draw operation of the secondary processor thereby obtaining reordered data that are arranged in a second predefined order; and

e. displaying the reordered data.

23. (Previously presented) The method of Claim 22, wherein the draw operation comprises a multi-textured draw operation.